

Title (en)
CONTACTLESS POWER TRANSMISSION DEVICE

Title (de)
KONTAKTLOSE KRAFTÜBERTRAGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE TRANSPORT D'ÉNERGIE SANS CONTACT

Publication
EP 2357716 A2 20110817 (EN)

Application
EP 09825620 A 20091211

Priority
• KR 2009007430 W 20091211
• KR 20080126271 A 20081212
• KR 20090058139 A 20090629
• KR 20090082773 A 20090903

Abstract (en)
A non-contact power transmission apparatus accurately determines the kind of object that is placed on the charging deck of the non-contact power transmission apparatus, and, only when a non-contact power receiving apparatus is placed on the power transmission apparatus, allows power transmission and data communication to take place, thereby accurately determining the state of the receiver side and efficiently controlling the transmission of power. In the power transmission apparatus, the power supplied to the non-contact power receiving apparatus is measured, and the output power of the wireless power signal output from two different cores is controlled, thereby allowing the charging operation to be stably conducted even if the non-contact power receiving apparatus is moved anywhere on the power transmission apparatus. The power transmission apparatus improves both the reliability of operation of the non-contact charging system, and the competitiveness of related products, such as portable terminals, battery packs and the like.

IPC 8 full level
H02J 7/00 (2006.01); **H01F 37/00** (2006.01); **H01F 38/14** (2006.01); **H02J 5/00** (2016.01); **H02J 7/02** (2016.01); **H04B 5/00** (2006.01)

CPC (source: EP US)
H01F 38/14 (2013.01 - US); **H02J 3/322** (2020.01 - EP US); **H02J 7/0013** (2013.01 - US); **H02J 7/0044** (2013.01 - EP US); **H02J 50/10** (2016.02 - EP US); **H02J 50/12** (2016.02 - US); **H02J 50/60** (2016.02 - US); **H02J 50/80** (2016.02 - US); **H02J 50/90** (2016.02 - EP US); **H04B 5/79** (2024.01 - EP US); **H01F 37/00** (2013.01 - US); **H02J 7/00045** (2020.01 - EP US); **H02J 2310/22** (2020.01 - EP US)

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Designated contracting state (EPC)
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DOCDB simple family (publication)
US 2011140538 A1 20110616; US 8552593 B2 20131008; CN 101919139 A 20101215; CN 101919139 B 20140820; CN 103208830 A 20130717; CN 103208830 B 20160622; CN 103227513 A 20130731; CN 103227513 B 20160706; CN 103296784 A 20130911; CN 103296784 B 20150902; EP 2357716 A2 20110817; EP 2357716 A4 20141008; EP 2357716 B1 20170830; EP 2426808 A1 20120307; EP 2426808 B1 20130605; EP 2426809 A2 20120307; EP 2426809 A3 20131113; EP 2426809 B1 20180808; EP 3065257 A1 20160907; EP 3065257 B1 20200212; ES 2423407 T3 20130920; JP 2012511891 A 20120524; JP 2013146185 A 20130725; JP 5266397 B2 20130821; JP 5651724 B2 20150114; US 10886780 B2 20210105; US 11641113 B2 20230502; US 2011260549 A1 20111027; US 2011260550 A1 20111027; US 2013169060 A1 20130704; US 2014021797 A1 20140123; US 2014139033 A1 20140522; US 2015318715 A1 20151105; US 2017141617 A1 20170518; US 2021194288 A1 20210624; US 2023307917 A1 20230928; US 8427011 B2 20130423; US 8436492 B2 20130507; US 8760010 B2 20140624; US 9269490 B2 20160223; US 9531197 B2 20161227; WO 2010068062 A2 20100617; WO 2010068062 A3 20100923

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US 74153409 A 20091211; CN 200980101003 A 20091211; CN 201310045713 A 20091211; CN 201310045802 A 20091211; CN 201310046073 A 20091211; EP 09825620 A 20091211; EP 11188577 A 20091211; EP 11188583 A 20091211; EP 16165755 A 20091211; ES 11188577 T 20091211; JP 2011540608 A 20091211; JP 2013041858 A 20130304; KR 2009007430 W 20091211; US 201113162861 A 20110617; US 201113162886 A 20110617; US 201313762667 A 20130208; US 201313857858 A 20130405; US 201313940648 A 20130712; US 201514798440 A 20150713; US 201615358436 A 20161122; US 202017120487 A 20201214; US 202318191329 A 20230328